

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Tadashi KURIYAMA et al.

Application No.: 09/555,578

Filed: June 1, 2000

Docket No.: 106336

For: TACK LABELS AND PLASTIC CONTAINERS WITH SUCH TACK LABELS


INFORMATION DISCLOSURE STATEMENTDirector of the U.S. Patent and Trademark Office  
Washington, D.C. 20231

Sir:

Pursuant to 37 CFR §1.56, the attention of the Patent and Trademark Office is hereby directed to the reference(s) listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

- ☒ 1. This Information Disclosure Statement is being filed (a) within three months of the U.S. filing date or the date of filing a CPA, OR (b) before the mailing date of a first Office Action on the merits in the present application. No certification or fee is required.
- ☒ 2. Relevance of the non-English language references is discussed in the present specification.
- ☒ 3. An English-language Abstract of the non-English language reference is attached hereto.

Respectfully submitted,

  
James A. Oliff  
Registration No. 27,075Joel S. Armstrong  
Registration No. 36,430

JAO:JSA/cmm

Date: July 26, 2000

**OLIFF & BERRIDGE, PLC**  
P.O. Box 19928  
Alexandria, Virginia 22320  
Telephone: (703) 836-6400

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**CERTIFICATION OF ENGLISH LANGUAGE TRANSLATION**

I, Chihiro Yamazaki, hereby declare and state that I am knowledgeable of each of the Japanese and English languages. I hereby certify that the attached English language translation is an accurate translation of the indicated portions of Application Number 5-230427 entitled LABEL ADHESIVE which was filed in the Japanese Patent Office on February 19, 1992.

May 7, 2002

Date

Chihiro Yamazaki  
Signature

Chihiro Yamazaki

Typed Name

Japanese Laid-Open Patent Application 5-230427

Laid-Open Date: September 7, 1993

Filing Date: February 19, 1992

Title of the Invention: LABEL ADHESIVE

***Partial translation***

[Scope of the Claim]

[Claim 1]

Label adhesive comprising (A) one or more types of emulsion selected from ethylene-vinyl ester copolymer emulsion and poly (meth)acrylic acid ester group emulsion and (B) a substance that is water insoluble, and which is alkaline soluble or alkaline swellable.

[0013]

As an acid-type highly water-absorbable resin, highly water-absorbable resins or the like can be listed such as highly water-absorbable resins in which a dealkalization process (e.g., cleansing process by acid) is performed, and highly water-absorbable resins which are fabricated using (meth)acrylic acid chloride or (meth)acrylic acid and using a common cross-linking agent. These are mostly undissolved and unswelled in normal water and exist as powder, but become significantly swelled in an alkaline aqueous solution. As specific examples of highly water-absorbable resins, a cross-linking substance of poly acrylic acid chloride, a cross-linking substance of salt of  $\alpha$ -olefin-maleic acid anhydride copolymer, a cross-linking substance of acrylic acid/starch graft polymer, a hydrolyzed substance of starch-acrylonitrile graft copolymer, or the like can be listed.

[0025]

[Table 1]

	Emulsion (A)		Substance (B)		Initial adhesive property	Normal adhesive property	<u>Cold water adhesive property</u>	<u>Alkali cleansing</u>
	Type	(Parts)	Type	(Parts)				
First Embodiment	AcEm (45%)	100	Isoban-04	4	○	○	○	◎ (*1)
Second Embodiment	EVAEm (51%)	100	SMA-1000	5	○	○	○	◎ (*2)
Third Embodiment	AcEm (45%)	100	PVAcEm	10	○	○	○	○ (*3)
Comparison Example 1	AcEm (45%)	100	(not added)		○	○	○	XX (*4)

[0026] (Explanation of the Symbols)

◎: Extremely good

○: Good

XX: Extremely bad